

6.1-Check that the final rotational position for the ball shaft is correct. Place the appropriate size wrench on the shoulder nut. With equal pressure push against the ball shaft in the opposite direction as you tighten the nut. This will minimize the stress on both the mounting plate and the ceiling.

NOTE: If you try to move the ball shaft without first loosening it where it joins the mounting plate, lateral forces will transmit to the mounting plate fasteners. The resulting stress, transferred to the mounting surface, could weaken the installation.

6.2-If you need to readjust the lateral position of the ball shaft, **always** loosen the shoulder nut first.

Remember: tighter does not mean better! Over-tightening fasteners can weaken the installation and damage your speaker.

Whenever you need to readjust the position of the speaker to move freely around the ball, re-adjust to the **new** position and **then** re-tighten. Always remember to support the speaker when repositioning and when tightening the clamp assembly.

6.3-IMPORTANT Since the ball will slowly compress under pressure, you should check the clamp after 15 minutes and tighten again if necessary. Then check once more in approximately one hour. Always support the weight of the speaker while positioning it and tightening the clamp.

Congratulations! Your installation is now complete!

Additional Reference...

1. U.B.C. (Uniform Building Code) 1994 Edition, Vol. 2, "Structural and Engineering Design Provisions."
2. United States Department of Agriculture, Agriculture Handbook #72, "Wood as an Engineering Material," Prepared by: Forest Products Laboratory, Forest Service, USDA
3. NDS Commentary on the National Design Specification® for Wood Construction (Commentary on the 1991 Edition), American Forest and Paper Association.

OmniMount products have been installed successfully worldwide for many years. To help ensure the safe and proper use of our products, we believe it is our responsibility to provide clear, detailed instructions with periodically updated precautionary information. Please Note: Every effort has been made to provide accurate and error-free assembly and installation information. OmniMount® Systems, Inc. disclaims liability for any difficulties arising from the interpretation of information contained in these instructions. OmniMount

Systems, Inc. cannot reasonably assume responsibility or liability — direct, indirect or consequential — for the structural integrity or suitability of any speakers; nor the suitability for mounting or the structural integrity of the surfaces (walls, ceilings, decks, floors, etc.) to which such speakers are to be mounted. The same holds true for design or manufacturing defects in speakers themselves or design changes made by speaker manufacturers that may affect the safe and secure mounting of their speakers.

The General Ceiling Mounting Information and Installation Instructions provided herein are for use in the installation of loudspeakers. Although OmniMount products are often used to support many different kinds of objects, installed on a variety of mounting surfaces, such use and installation may be subject to different specifications requiring installation information in addition to what is provided in this pamphlet. In such cases, be sure to ascertain suitability and obtain the required additional installation information.

Notice to the Purchaser:
The following is made in lieu of all warranties expressed or implied: the Manufacturer's only obligation shall be to replace parts of this product proved to be defective within two years of the date of purchase. We are aware that this mounting assembly may be used for purposes and in ways other than those for which it has been designed and manufactured. The Manufacturer, Distributor, Retailer, and their respective Agents cannot be held responsible or liable for injuries or property damage—direct, indirect or consequential—arising out of the use or inability to use this product safely and properly.

Model 30.0 CA

Mounts from ceiling to back of speaker.



General Ceiling Mounting Information and Installation Instructions



Precautions-Read this section carefully

Whenever a speaker is affixed to a ceiling, you must take special care to mount it securely to prevent it from falling and causing damage or injury. For a safe and secure installation use good judgement and common sense throughout all phases of the installation.

Load

The OmniMount 30.0 CA will support speakers weighing up to 30 pounds (13.6 Kg). Be aware of basic physical laws that affect balance, stability and weight distribution. If your speaker is heavier than 30 pounds, we manufacture larger mounts with greater maximum weight ratings.

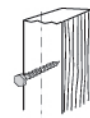
Mounting Surfaces

Carefully evaluate the composition, construction and strength of the surface you are mounting to. OmniMount 30.0 Series products are packaged with fasteners intended for use in mounting to interior ceilings of standard joist or beam construction. The installation instructions provided here are limited to this type of ceiling construction.

OmniMount 30.0 Series products can be mounted to steel beams, concrete slabs and other types of ceiling construction. This type of construction does, however, require special anchors and fasteners for a secure and safe installation. There are standard construction practices and fastening products available for mounting to these types of structural surfaces. Seek professional help or contact OmniMount Systems technical support for more information.

The safety and security of your installation is most critically dependent on how securely the OmniMount 30.0 mounting plate is affixed to the ceiling.

When mounting things to ceilings here are some of the most common installation errors: Not locating the precise center of the joist—screwing fasteners into an edge rather than the center of the joist. This results in either splitting the wood or only partially engaging the screw shaft. (See Figs. 1 & 2)

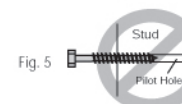
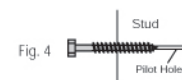


To maximize pull-out strength, the screw shaft needs to be located in the center of the joist. (See Fig. 3)

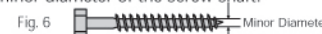
Screw Related Installation Errors.

Drilling a pilot hole is necessary to prevent the wood from splitting. The pilot hole is also required to provide a straight pathway for the screw to travel as it penetrates the stud. A pilot hole should serve to simply **guide** the travel of the screw. (See Figs. 4 & 5)

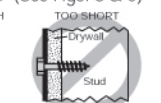
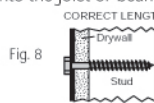
Drilling "pilot" holes that are too large for the diameter of the screw shaft significantly reduces "pull-out" strength.



Screws have a major diameter and a minor diameter. (See Figs. 6 & 7) The pilot hole should always be smaller than the minor diameter of the screw shaft.



Always use screws long enough to penetrate deeply into the joist or beam. (See Figs. 8 & 9)



Locating the Center of a Joist

Do not rely on a measuring tape alone. Standard joist construction practice places joists on centers between 12" and 24". But in reality, joists are not always consistently on these centers. You find the greatest discrepancy in joist centers when you measure from the corner of a room, starting with the first joist. It may be helpful to locate several joists on the ceiling and measure their approximate centers.

There are a variety of electronic and magnetic stud or joist finders available on the market. They can be a useful tool for finding the joist. But it is essential that you locate the exact center of the joist. How to do this is detailed in these installation instructions.

About The Speaker You Are Mounting To...

Some manufacturers provide "OmniMount prepped" threaded inserts on the back of their speakers. Such speakers have inserts that line up precisely with the hole centers in the OmniMount clamp plate.

Be sure to provide adequate reinforcement to the speaker if it is determined that such reinforcement is necessary.

When no threaded inserts for mounting purposes have been provided by the speaker manufacturer, a

speaker can still be safely mounted on the wall. But you have to be sure that it is put together strongly enough with materials strong enough to support its own weight with the #14 coarse thread screws and anchors provided. Most compact speakers are made well enough and use adequate materials with adequate thickness for mounting with an OmniMount assembly. The #14 screws should not be used in masonite®, thin panel wood, or plastic. Such materials will likely require different fastening hardware and methods. The speaker may also need reinforcement to be mounted safely. If your evaluation raises any questions about the speaker's construction or material strength, contact your dealer or the speaker manufacturer and **ASK QUESTIONS!** More on this later...

More Precautions-Read this section carefully.

Fasteners

Attaching the clamp assembly and the mounting plate/ball shaft requires fasteners appropriately selected for strength and composition of the mounting surfaces involved. The type of fasteners and anchors OmniMount Systems has provided have been carefully selected. They are suitable for the majority of installation situations as discussed in these instructions. Occasionally, there will be an installation situation for which the fasteners provided are not suitable. If it is determined that different fasteners are required, they must always be 5/16 in. diameter for the mounting plate, 1/4 in. diameter for the clamp assembly. Fasteners must always be used in **all** available mounting holes. Never use smaller diameter fasteners (if you drill pilot holes, the holes should be **smaller** than the core diameter of the screws). Do not over-tighten fasteners. Over-tightening can weaken the mounting surface, damage the fasteners, and make the attachment **less** secure.



If you are not sure about the suitability of the fasteners provided for your installation, **ASK QUESTIONS!**

NOTE: A second person is necessary to hold the speaker in place during the tightening procedure.

Securing the clamp assembly to the speaker.

There are four things you need to know about your speaker before you begin:

- 1- Are any internal components (such as the crossover network) directly behind the location onto which you will be mounting the clamp assembly?
- 2- Is the material you are mounting into strong enough to safely support the load?
- 3- Is internal reinforcement needed?
- 4- Are the fasteners provided suitable for your installation?

NOTE: When mounting the clamp assembly, you will need a minimum of 1/4" clearance inside the speaker enclosure away from any internal components. The easiest way to find out if you have adequate clearance, is to check directly with the speaker manufacturer. Or, you can check yourself by carefully removing the largest driver (speaker component). Move any insulation out of the way and physically check the clearance. If you check by removing the driver, be careful not to over-tighten the screws when you replace it. If you had planned to mount the clamp assembly to the back of the speaker and discover later that components are mounted on the inside rear, or too close to the back of the speaker, you will have to use a different OmniMount model. 30.0 WB and 30.0STMP models, for example, are ideal for mounting to the top or bottom of the speaker. Usually, good quality speakers are made of good



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